

# Anirudh Sunil

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<https://github.com/anirudhs1010> | <https://anirudhsunil.vercel.app/>

## Education

### University of Illinois - Urbana Champaign

Dec 2026

B.S., Mathematics and Computer Science

- **Coursework:** CS 233 (Computer Architecture), CS 225 (Data Structures), Math 416 (Abstract Linear Algebra), Math 213 (Discrete Mathematics), CS 374 (Algorithms), Math 412 (Graph Theory), CS 361 (Probability and Statistics in Computer Science)

## Skills

- **Programming Languages:** C++, Java, Pascal, HTML, CSS, Python, TypeScript, JavaScript, SQL
- **Tools And Frameworks:** Kubernetes, AWS, Burp Suite, OWASP ZAP, DirBuster, NodeJS, Fusion360, NextJS

## Work Experience

### Venu AI (YC W21)

May 2025 - Present

Software Engineer Intern

### Prancer Enterprises

Jun 2022 - Aug 2022

Software Engineer Intern - Cloud Security

- Debugged Amazon Web Services S3 buckets and permissions to organize configuration layout, improving data access efficiency
- Reconfigured Kubernetes pods to optimize resource allocation, enhancing the performance of pod clusters, containers, and nodes using understanding of infrastructure, cloud offerings, and DevOps
- Established secure connections to regulate SQL databases, successfully preventing injection attacks and ensuring data integrity
- Utilized Shift Left Security tools such as Burp Suite proxy, OWASP ZAP, and DirBuster to secure websites, reducing vulnerabilities and enhancing security posture

### Chad Rienstra Lab

Aug 2023 - Dec 2023

Software Developer

- Tested protein structure models using zero normalized cross-correlation scores, which improved the accuracy of the BPHON paper's findings by identifying and resolving model discrepancies
- Developed and executed Python and Bash scripts to validate computational analysis techniques across 5,000 files and 5 directories, reflecting proficiency in object-oriented programming and systematic software testing
- Optimized the analysis pipeline for large-scale datasets of simulated and experimental SSNMR protein data, reducing processing time and improving data accuracy and collaborated with postdoctoral students to enhance structure calculations in agile software development environments

### Trydan Tech

Jun 2024 - Jul 2024

Software and Systems Development Intern

- Leveraged CAN communication protocols in Python using cantools modules to collect data for the EV scooter division XSTRAD, ensuring accurate testing with Synchronous Reluctance motor via Raspberry Pi's SPI interface and 2CH CAN FD HAT, which improved data accuracy and testing efficiency
- Decoded bits from a DBC file and organized data in a CSV format, facilitating effective analysis and identification of correlations among parameters such as speed, temperature, and phase current, which enhanced data-driven decision-making
- Collaborated with peers to analyze 10,000 data points across 26 motor variables, improving code review and quality assurance practices through detailed analysis and teamwork, which led to enhanced software reliability and performance

## Projects

### Rankd | <https://rankdgame.vercel.app/>

- Designed web app with NextJS, Tailwind CSS, and Supabase that allows users to play a ranking game for companies and characters
- Implemented ELO Ranking algorithm that updates leaderboard according to user input continuously, updated to scale for 150+ users
- Updated security measures for POST requests in database and increased latency for requests by 125%

### LLMJudge | <https://studio--llm-judge-4sh1r.us-central1.hosted.app/>

- Developed a web app with Firebase, TypeScript, and Tailwind CSS that benchmarks prompts and LLM outputs on length and tone
- Evaluated Gemini 2.0 Flash output with Perplexity Sonar, R1-1776, and Llama 3 with API calls and optimized
- Stored data for prior prompts and scores in CSV and visualized overall evaluation scores with bar chart

## Certifications

- **Stanford - CodeInPlace:** CS106A Section Leader/Instructor
- **AI4ALL Ignite:** AI project accelerator - Summer 2025
- **CodePath - CY102, TIP102 :** Cybsecurity and Tech Interview Prep